ESSEX
INSTALLATION
MANUAL

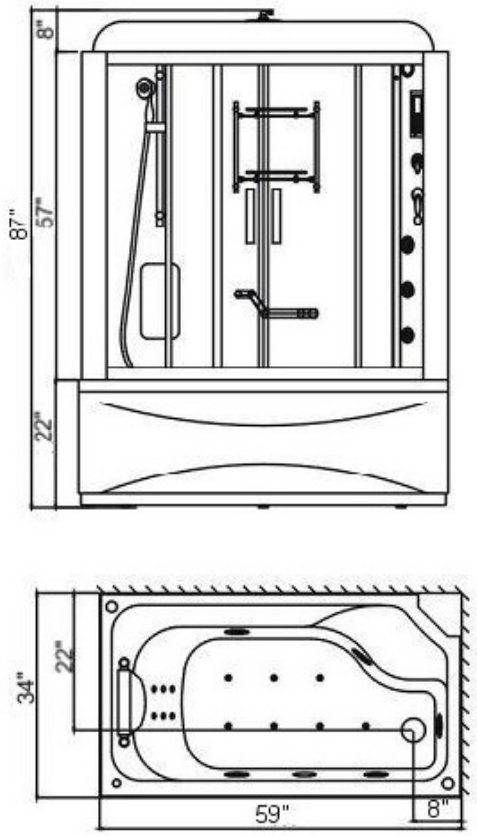
Thank you for choosing the Aquapeutics Essex luxury computerized steam shower / whirlpool bath. Please read the following manual in its entirety before assembling your unit. It is also very important to follow the safety suggestions outlined below at every use.

1. Please keep in mind that like most shiny bathroom surfaces when they get wet they may become slippery. Take care not to slip or fall.
2. Children should only use this product under adult supervision.
3. Users who suffer from heart disease or have high blood presser should exercise greater care when using this product.
4. Senior citizens, pregnant women and those who are of ill health are advised to get a doctors opinion on the recommended frequency of use of this product.

1. Technical parameters & package information

Electrical data			Dimensions (inches)			N.W	capacity
Circuits	Power	frequency	Length	Width	Height		
1@ 110V 8 amps 1 @ 220V 16 amps	900W and 3600W	50~60Hz	59	34	87	390 lbs	40 Gal

Please note: If you have purchased a tub with the additional heater option it is very important to understand that the electrical requirements for your unit have changed. The heater requires a second separate electrical circuit that can supply 13 amps at 110 volts with GFI in addition to what your tub had originally needed. Installation instructions for your optional heater are in the installation section of this manual.



1.2 Package information

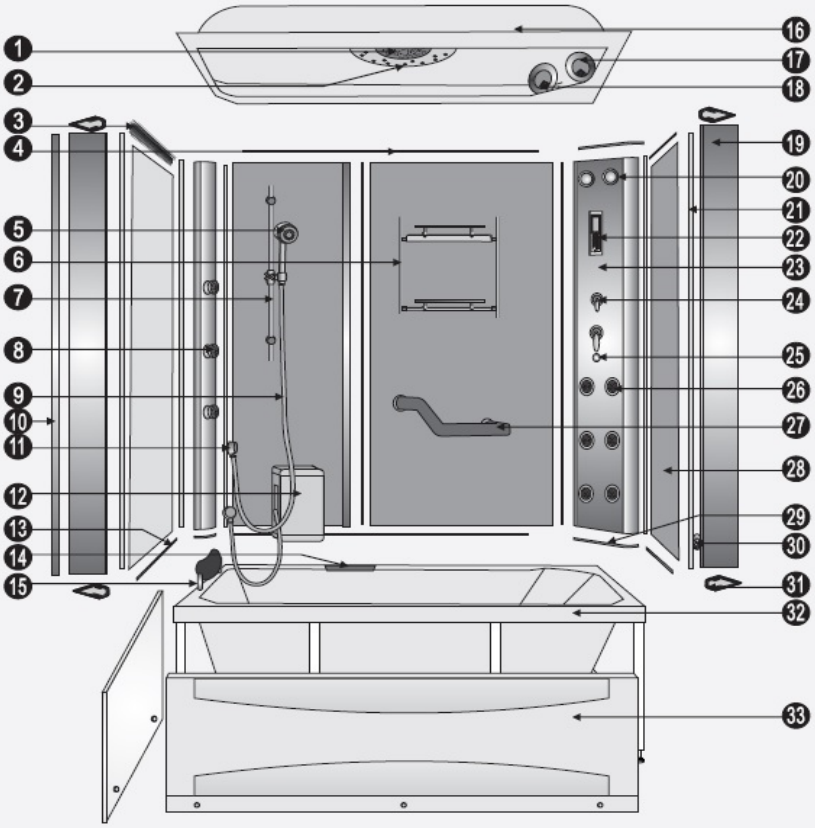
1. Upon the arrival of your Aquapeutics spa take care to make a thorough inspection for any visible damage to the shipping container. Visible damage should be reported to your carrier immediately. All SHIPPING DAMAGE should be noted on the assigned shipping document.

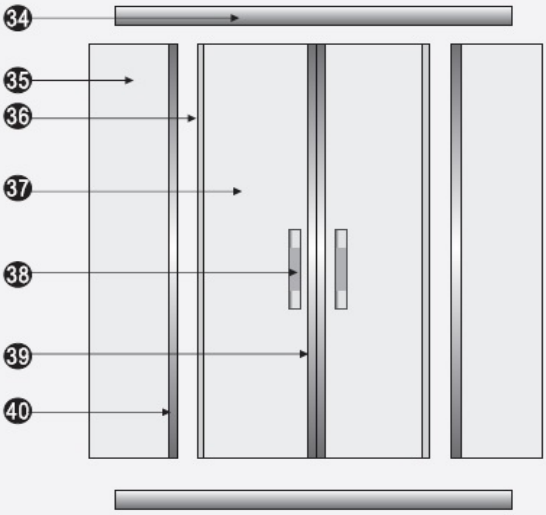
2. It is recommended that all rough plumbing and electrical work be completed before the assembly of your Essex begins.

3. At least two people are required to lift the larger pieces into position during installation.

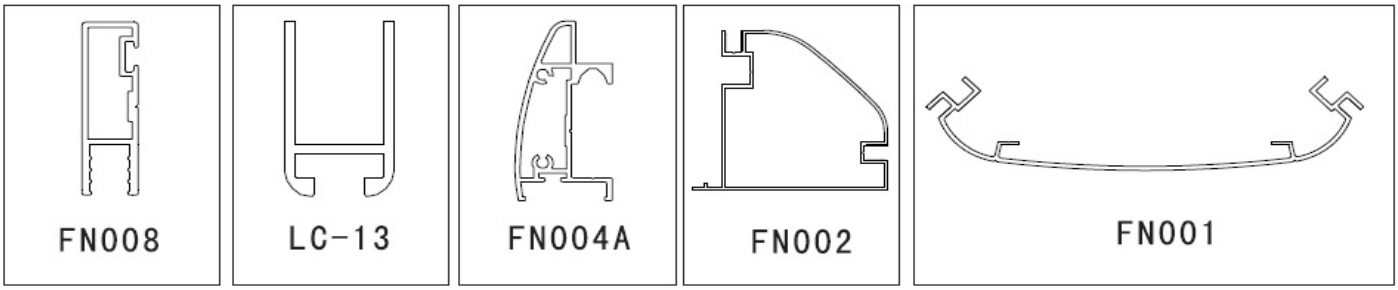
2.) Parts Diagram

1. Rainfal Shower
2. Overhead Light
3. Aluminum Side FN004A
4. 305B Seal
5. Shower head
6. Soap Shelf
7. Support rail
8. Accupuncture Jets
9. Chrom shower hose
10. FN009 Aluminum profile
11. Shower head water supply c onnection
12. Foot massager
13. 307 seal
14. Water filler
15. Pillows
16. Shower Cover
17. Fan
18. Speaker
19. FN002 Aluminum Profile
20. 917 light
21. Gasket
22. Control Panel
23. FN001 Aluminum Profile
24. Faucet Handle
25.
26. Accupuncture Jets
27. Handrails
28. Fixed glass panel
29. Fn001 aluminum rubber pad
30. Steam dispenser
31. Fn002 aluminum rubber pad
32. tub body
33. Apron plate
34. FN004A Seal
35. Fixed glass door
36. 304C Seal
37. Sliding glass door
38. Stainless steel handle
39. LC-13 aluminum material
40. Fn006 aluminum material

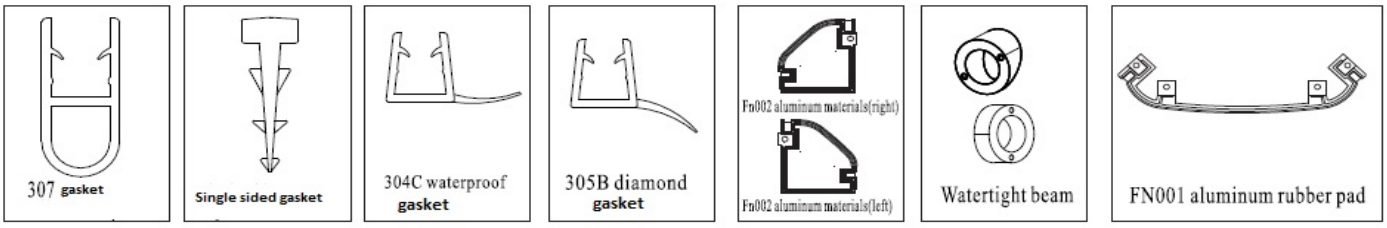




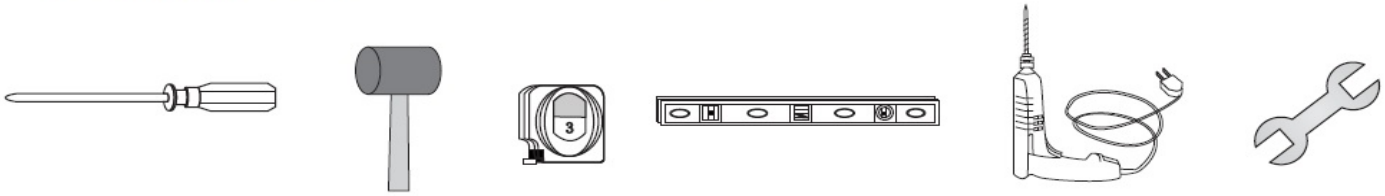
Cross sectional illustration of aluminum materials



Cross sectional illustration of gaskets



Recommended Tools



Screwdriver | Rubber mallet | Tape Measure | Level | Drill | Wrench

Installation of screws

M4X30 countersunk head self-tapping screw

M4X16 countersunk head self-tapping screw

M4X20 self-tapping screws Round

M6 nut

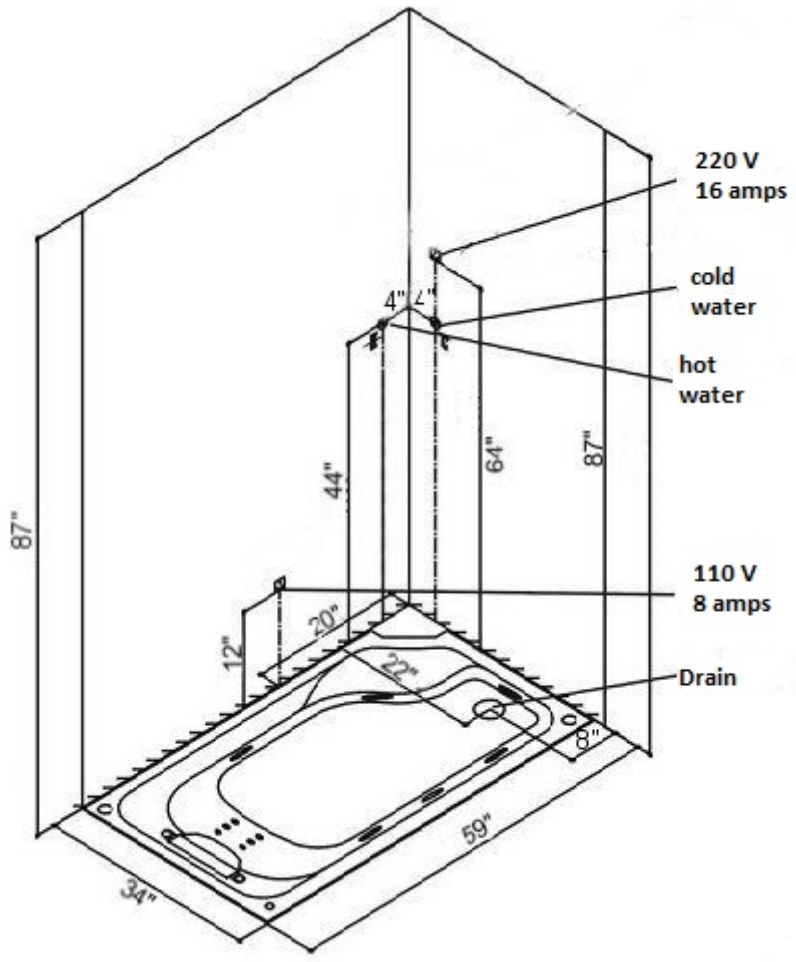
M6X30 countersunk head screw

M6 X 40 hexagonal screw

M8 stainless steel nut

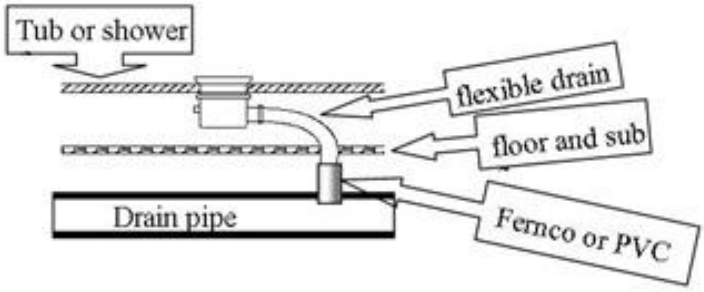
M6 stainless steel nut

M4 stainless steel nut



Drain pipe can be offset as much as 6 inches from tub drain.

2.2 Installation drawing for waste plug：



MODEL: Essex Installation instructions：

A.Water supply: Hot and cold water supply lines are half inch NPT pipe thread
Power supply：A 220Volt，16 amp service with GFI is necessary to energize the steam room-spa and a 110 volt 8 amp circuit with GFI is needed for the whirlpool bath. Please note: If you have purchased a Tub with the additional heater option it is very important to understand that the electrical requirements for your unit have changed. The heater requires a second separate electrical circuit that can supply 13 amps at 110 volts with GFI in addition to what your tub had originally needed.

B. The size of breakers and wire gages needed is determined by local, state and national codes as interpreted by the installing electrician. The length of the wire going to the steam generator from the wall should be 5 feet, while the length of the telephone line needed is 7 feet. This allows the unit to be pulled out from the side walls if maintenance is ever needed.

C. Drainage: The diameter of the drain pipe needs to be at least 2 inches. The position of the drain hole can be within 6 inches from the hole shown in the drawing on the previous page.

Notes:

(1) The distance from the top of the steam room to the ceiling of the area where it is installed should be 4 inches or greater. (The room should be at least 4 inches taller than the spa.)

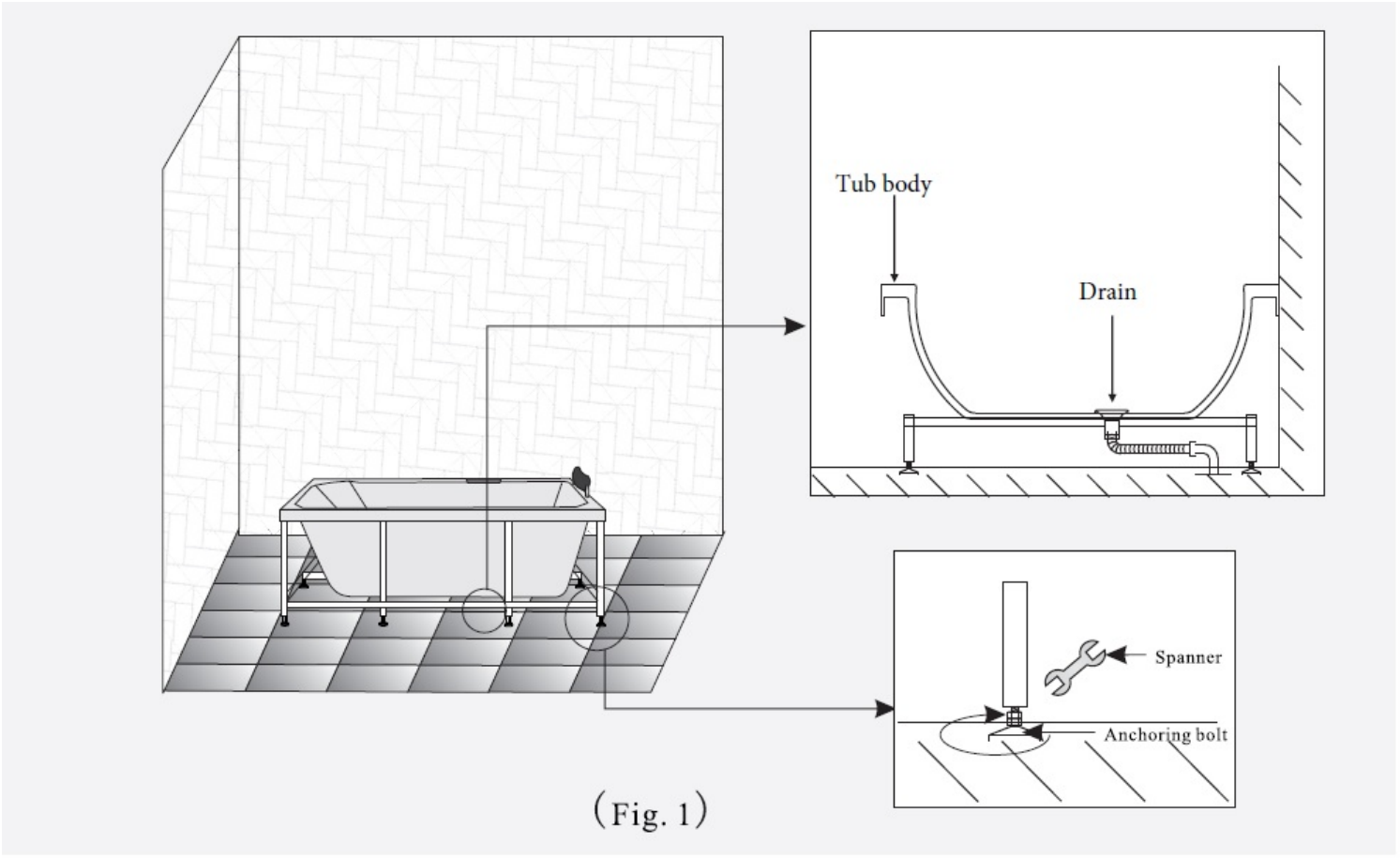
(2) It is recommended that the water pressure be at least 43 PSI and both the cold and hot water pressure should be as equal as possible. If the pressure is lower than required, have your plumber install the necessary equipment to increase the water supply pressure.

(3) Please have ground fault interrupter (GFI) protection on all power supply lines to the spa.

(4) It is easier to line up all panels with the hardware loose. During initial assembly please attach all fasteners loosely, then when the unit is completely erected, snug up all bolts and screws.

Installation Steps

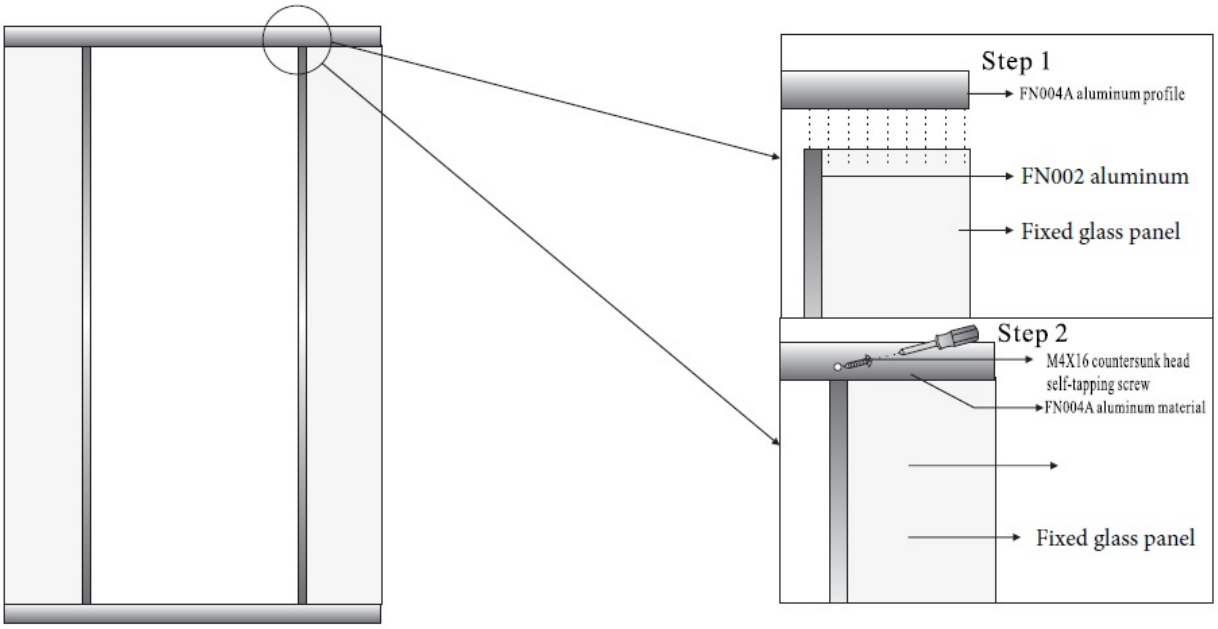
1.) Place the shower floor unit (as pictured below 1) 16-24 inches from its final installed location. Now adjust the leveling feet to bring the unit flat and level by using a 3 foot level and an open end or adjustable wrench to turn the adjusting nuts. This will raise or lower each corner as needed. Once the unit is level and flat lock each leg into position with its locking nut.



(Fig. 1)

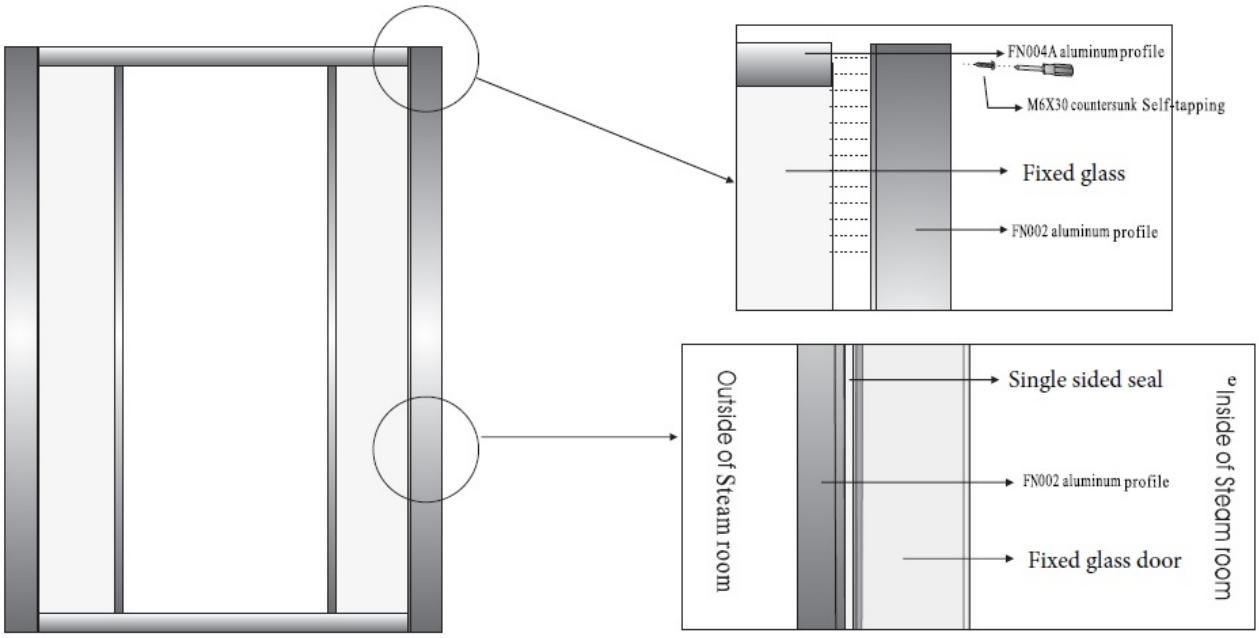
Glass door installation

2.) First remove aluminum profile FN002, FN004A, and fixed glass FN006 from packaging. Then affix the fixed glass to the FN004A aluminum profile using the m4x16 self-tapping screws as shown in Figure 2 below:



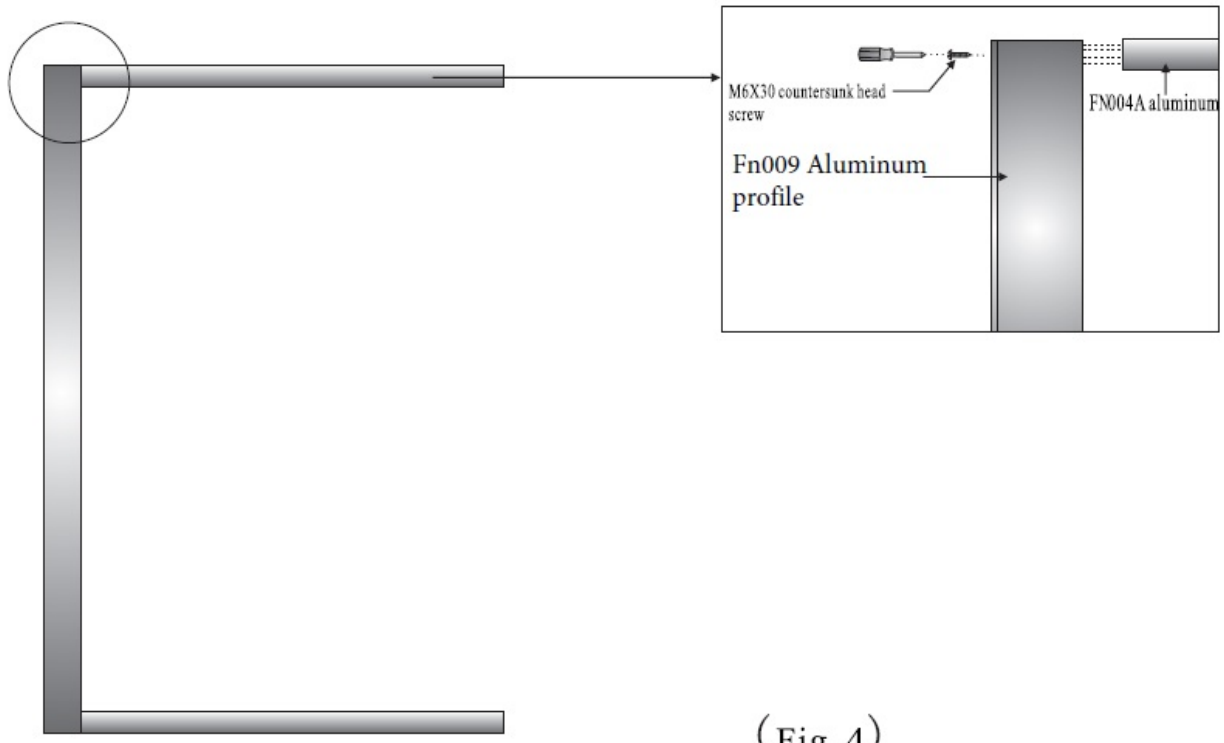
(Fig. 2)

3.) Insert single sided seal to outside fixed glass then connect the FN002 aluminum profile to both sides of the FN004A elbow aluminum profile using M4x30 self tapping screws as seen in Fig. 3.



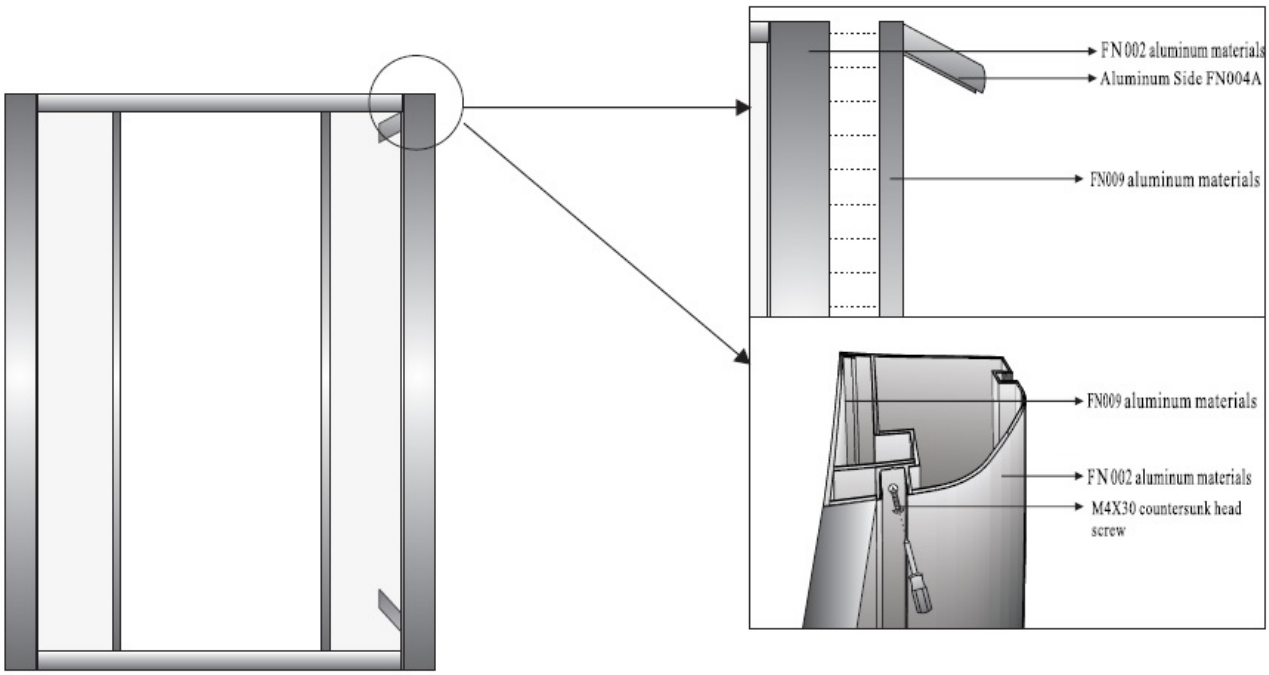
(Fig. 3)

4. Connect side aluminum panels. First remove FN009 aluminum profile and FN004A aluminum profile. Using M6x30 self tapping screws affix FN004A aluminum profile to FN009 aluminum profile in corresponding holes as seen in figure 4 below. Be sure to distinguish top and bottom FN004A profiles and repeat steps for opposite side.



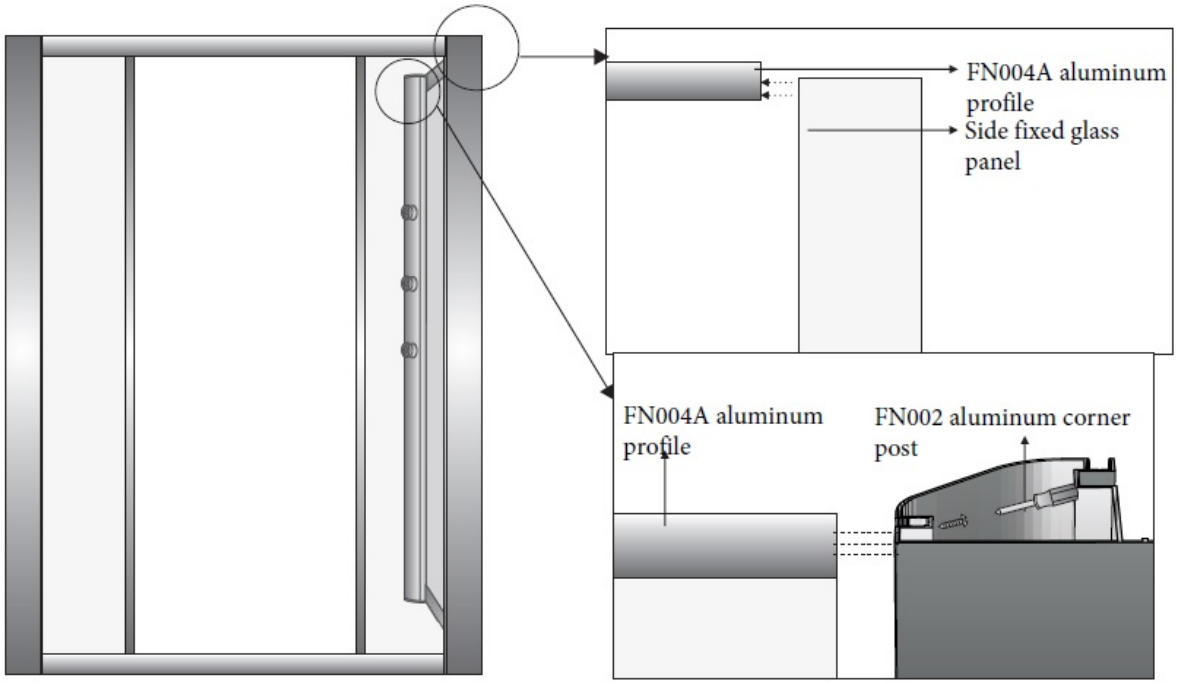
(Fig. 4)

5.) Using M4x10 self tapping screws connect the mounted glass panels (Fig. 3) with side aluminum panels (Fig.4) as seen in Fig 5 diagram below. Repeat steps for opposite side.



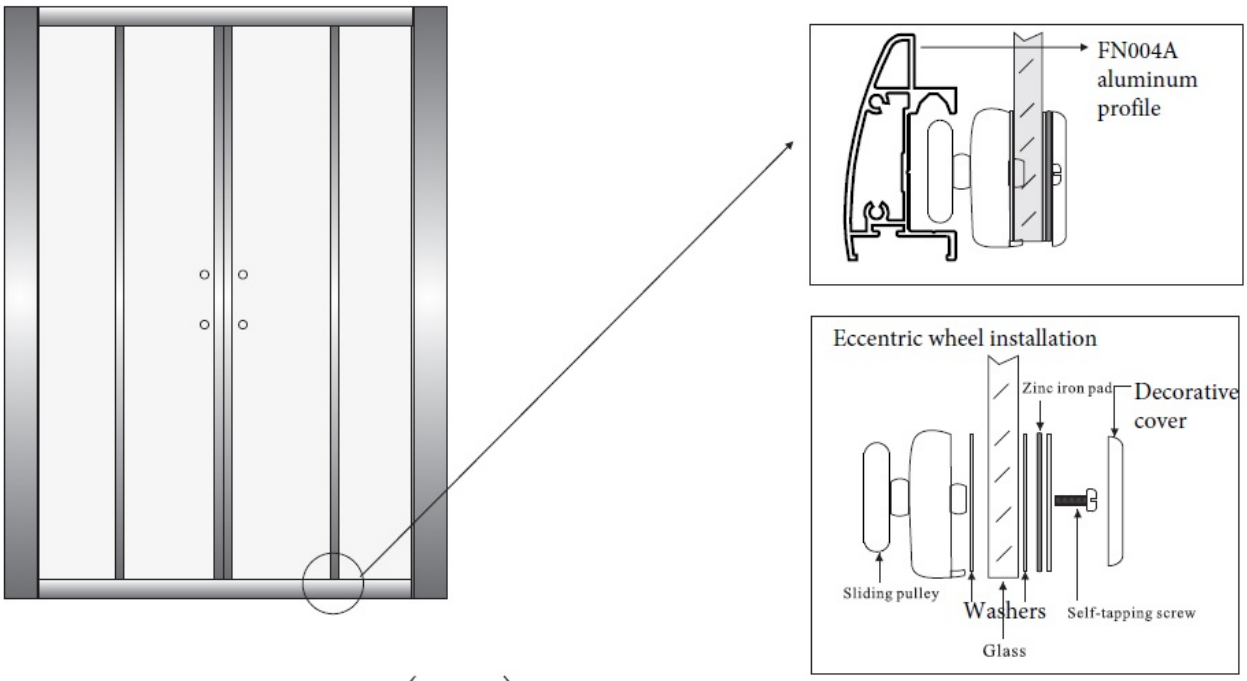
(Fig. 5)

6.) Install side fixed glass panel to side aluminum profile as seen in figure 6 below. Slide side fixed glass panel into both top and bottom grooves of FN004A aluminum profiles. Once completed then secure the ends of both top and bottom FN004A aluminum profiles to FN002 aluminum corner post using M4x30 self tapping screws as seen in bottom right image of Figure 6.



(Fig. 6)

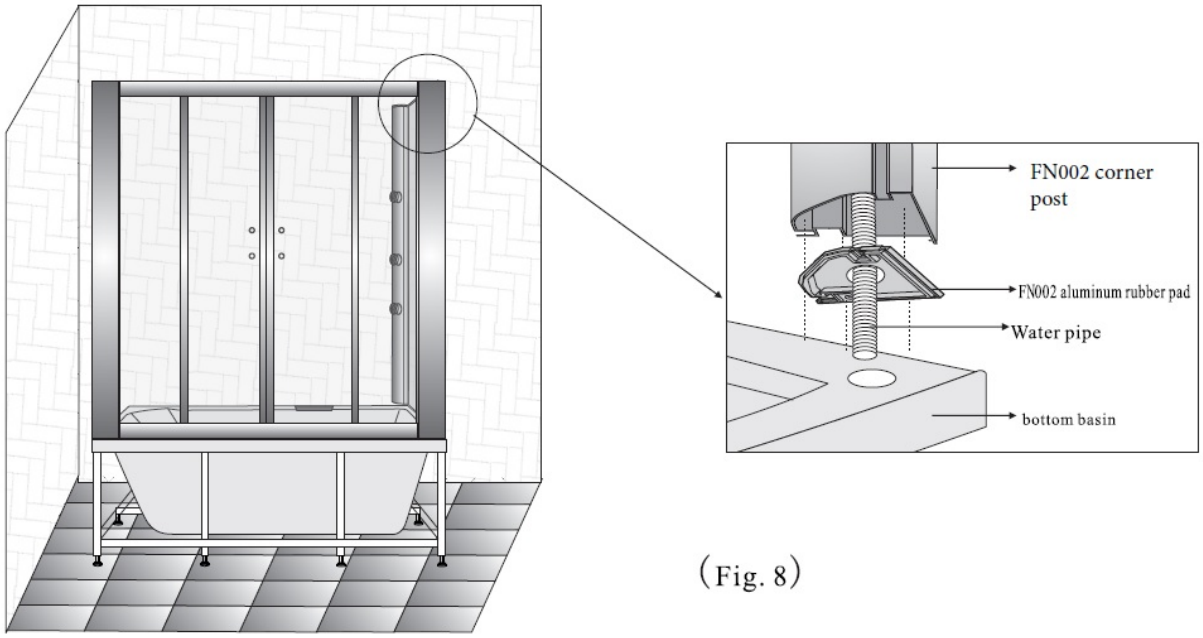
7.) Remove sliding glass doors and install upper eccentric wheels onto upper FN004A grooved tracks as seen in figure 7. Repeat steps with lower tracks once upper tracks have been installed.



(Fig. 7)

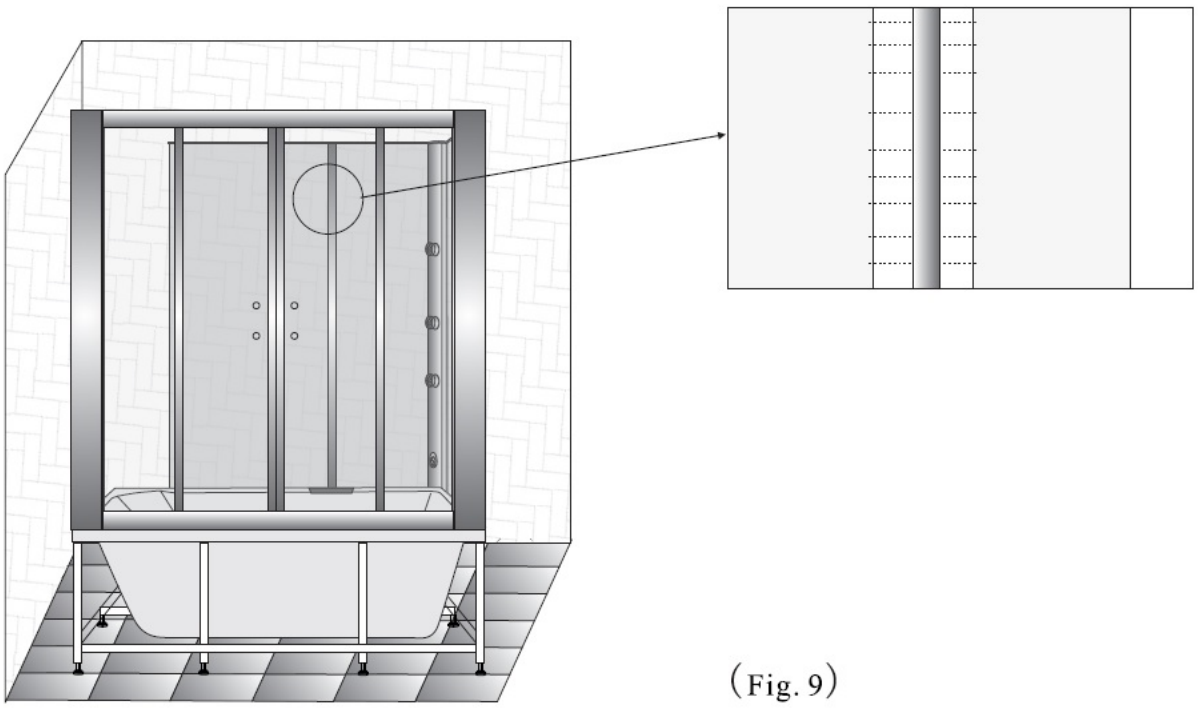
Note: Eccentric roller detail: The eccentric wheel assemblies are used in both the upper and lower tracks of the sliding doors. The top ones are installed first. By turning the grey eccentric wheel the white wheel is raised or lowered. This allows you to adjust the ride height of each side of the sliding glass door. You want the door to be as plumb as possible. After the correct positions for the top eccentric wheels have been determined then you can tighten them as needed. Now the bottom eccentrics may be installed using a similar method only no fine tuning is necessary. The bottom ones are simply inserted first their lowest position and then twisted 180 degrees to their highest position to lock them into the track.

8.) Affix FN002 rubber pad to FN002 aluminum corner post as seen in right diagram of figure 8 below. Then mount the entire glass frame panel onto the top of tub basin using a minimum of two people.



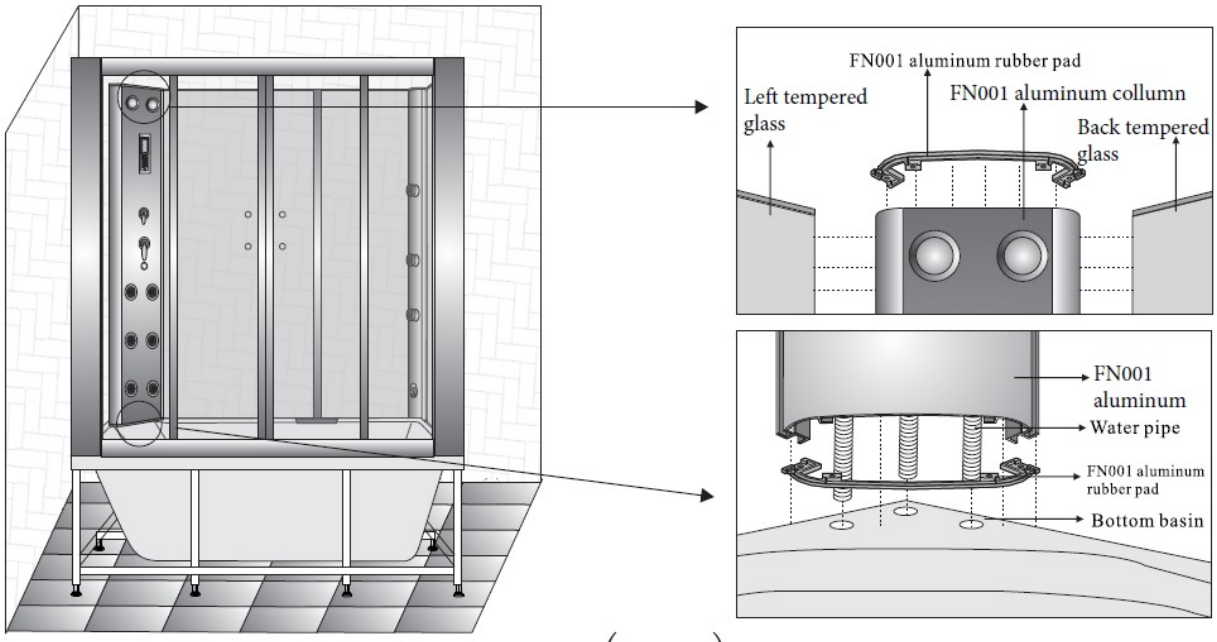
(Fig. 8)

9.) Remove non transparent back tempered safety glass and affix a 305B diamond gasket along the top of each glass and a B307 waterproof gasket along the bottom of each glass. Join the two fixed glass panels using the FN007 aluminum panel as shown in right diagram of figure 9 below.



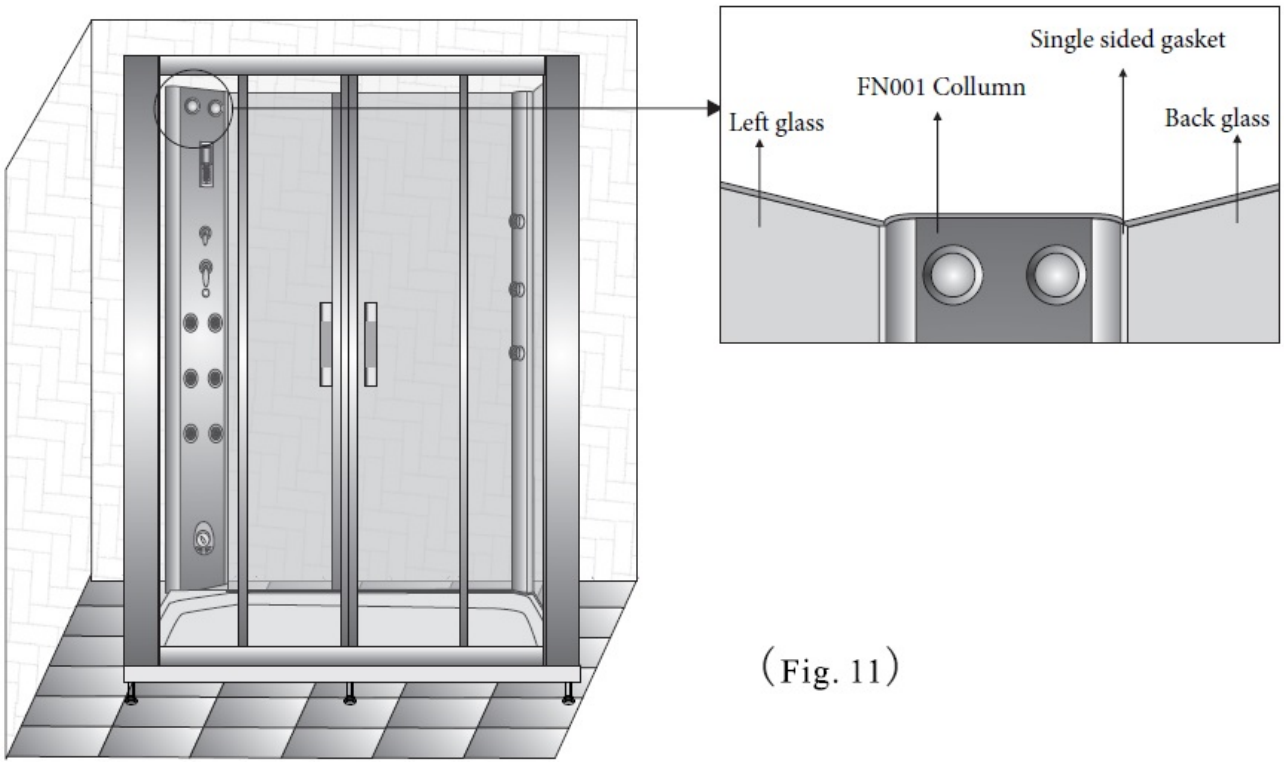
(Fig. 9)

10.) Remove FN001 aluminum collumn and 2 FN001 rubber pads and affix to the top and bottom end of collumn as seen in lower right diagram of fig. 10 below. Once pads have been attached then install FN001 aluminum collumn onto tub by inserting 3 water pipes into corresponding tub holes. Once installed insert the left opaque tempered safety glass and back tempered safety glass into FN001 collumn grooves as seen in Fig. 10.



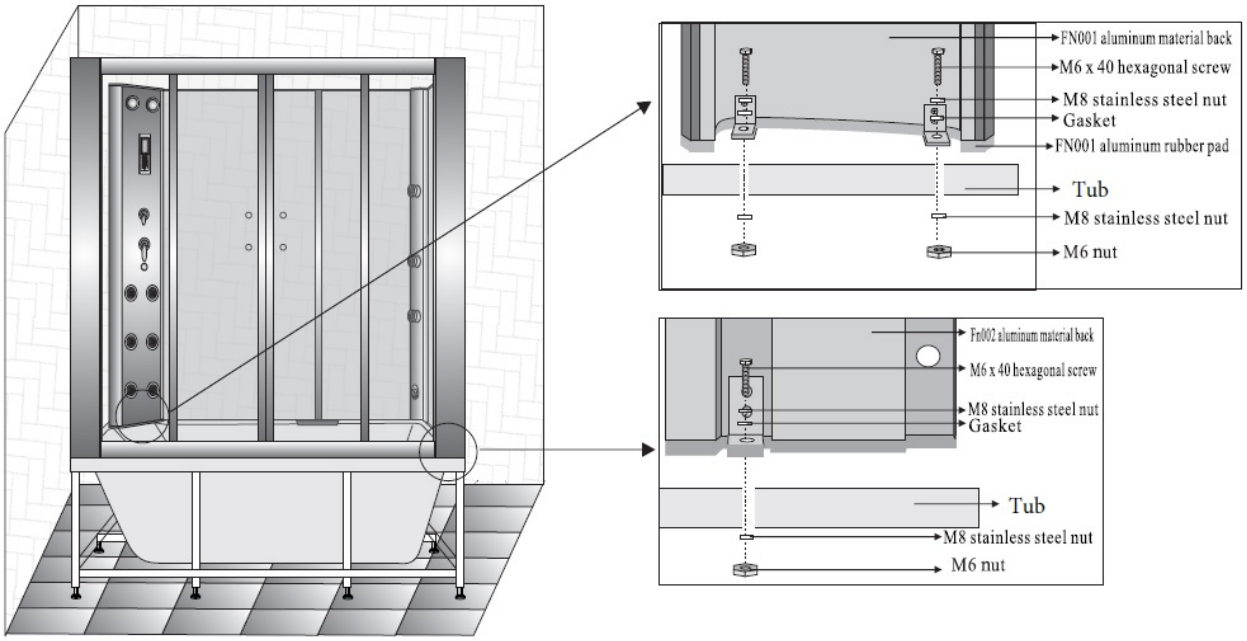
(Fig. 10)

11.) After inserting the left side tempered glass and back side tempered glass into the FN001 aluminum collumn then insert the single sided gasket where glass and collumn meet as seen in Fig. 11 below.



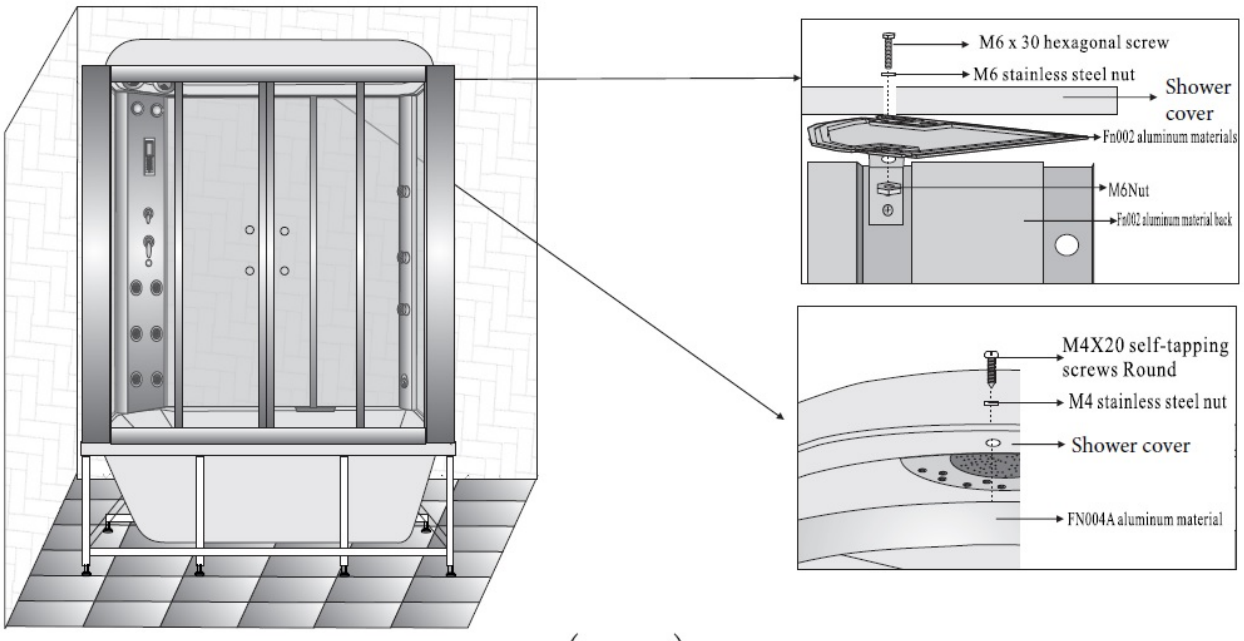
(Fig. 11)

12.) Using M6x40 screws attach FN001 and FN002 aluminum collumns to top of tub with corresponding holes as seen in figure 12 below.



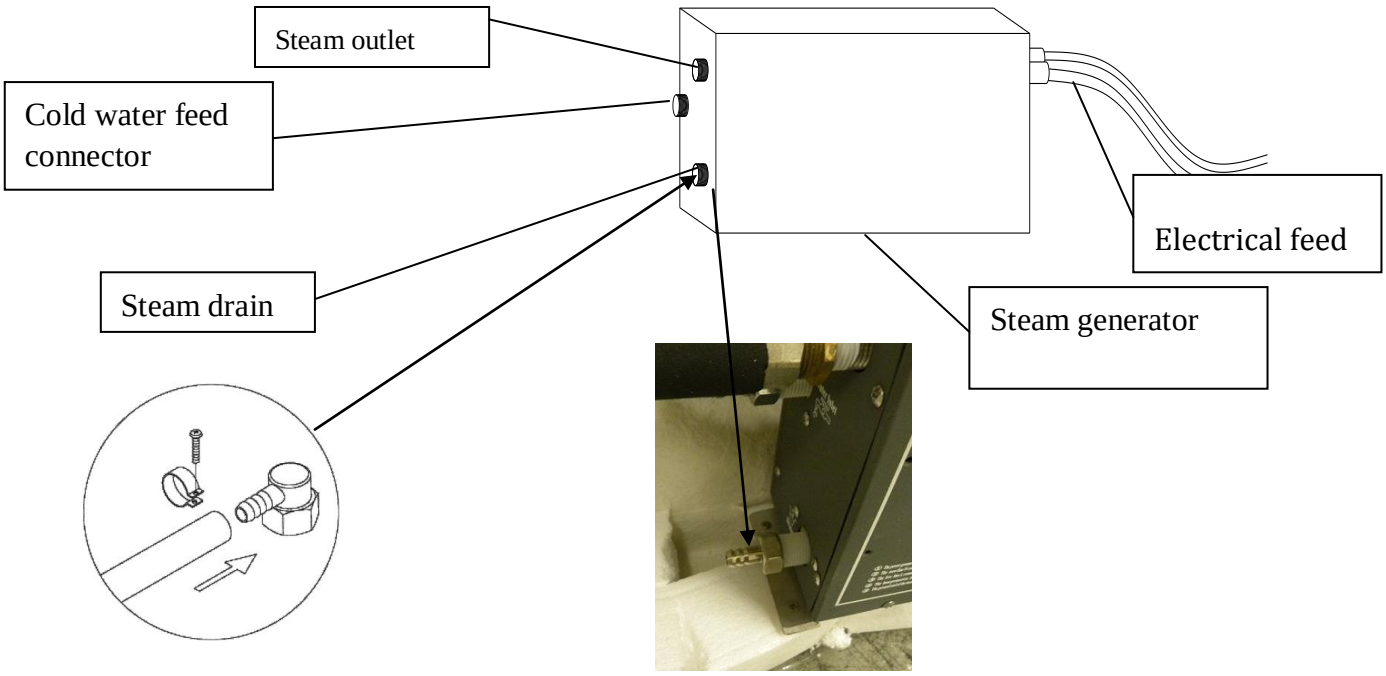
(Fig. 12)

13.) Place shower cover on top of shower frame and secure using M6x30 hexagonal screws and M4x20 self tapping screws as shown in Fig 13 below.



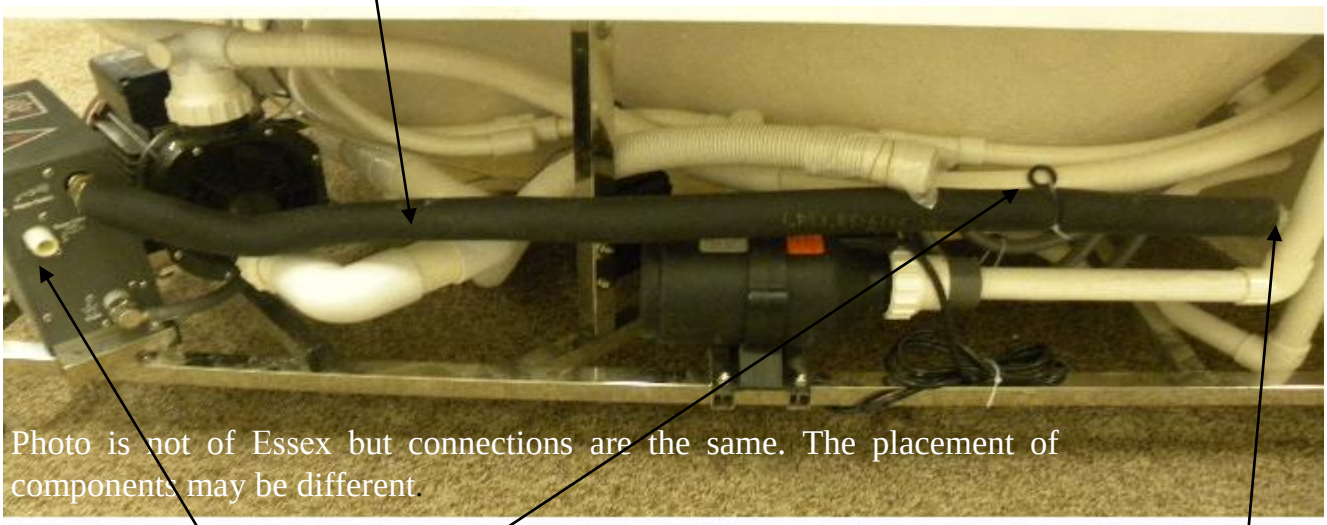
(Fig. 13)

14.) Steam generator diagram and tips



(Figure 14) Connect all hoses to and from the steam generator. The appropriate outlets/ inlets are labeled in the above diagram and are visible in the photo below. The steam generator drain hose is pushed onto the fitting (straight or elbow) connected to the steam generator. It is secured to this fitting by a clamp and a 3/16 X 5/8 inch round head fastener as is shown in the above figure. Drain hose from steam generator needs to be plumbed to the main drain. It is also shown assembled in the photo below.

When bending the insulated steam hose, please use Extreme Care not to crimp the hose as you feed it through the appropriate hole in the tub section.



The all silver hose is the water supply feed hose to the steam generator. It is attached here

The rubber washer (gasket) that is secured by a wire tie is inserted into the end of steam hose

④ Connect the insulated black high temperature steam pipe, which is on the steam outlet, to the steam jet's connector on the spa's back panel. (Figure 15)

15.) Rainfall shower and steam dispenser connections:

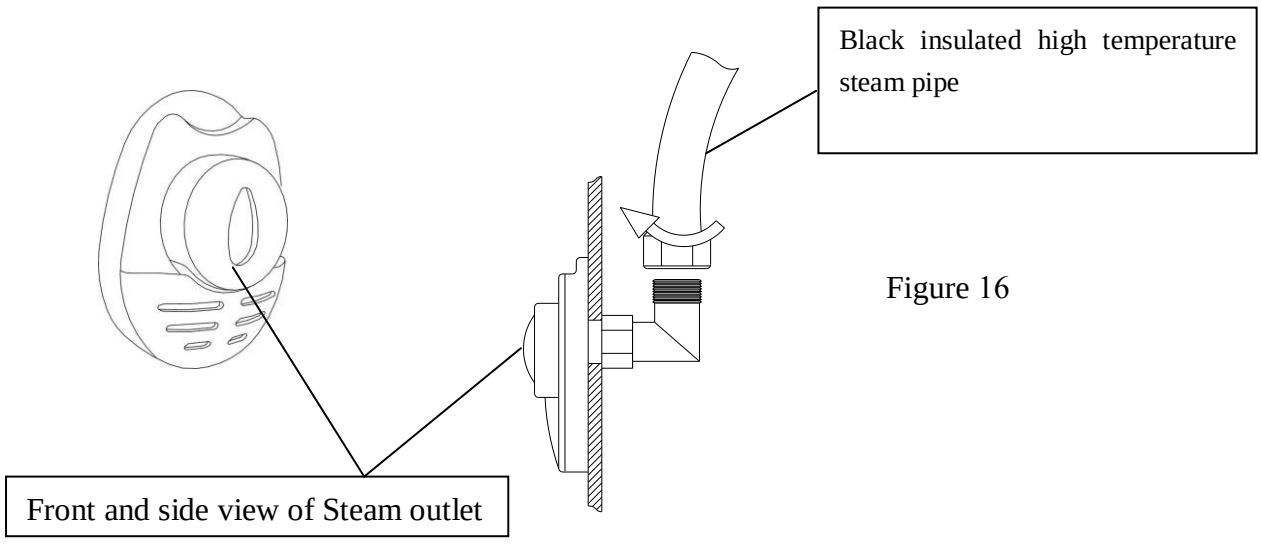


Figure 16

⑤The water hose for the rainfall shower goes through the hole in the shower roof /ceiling and then connect it to the elbow fixture of the shower head with a clamp as is shown in the below figures. (Figure 17)

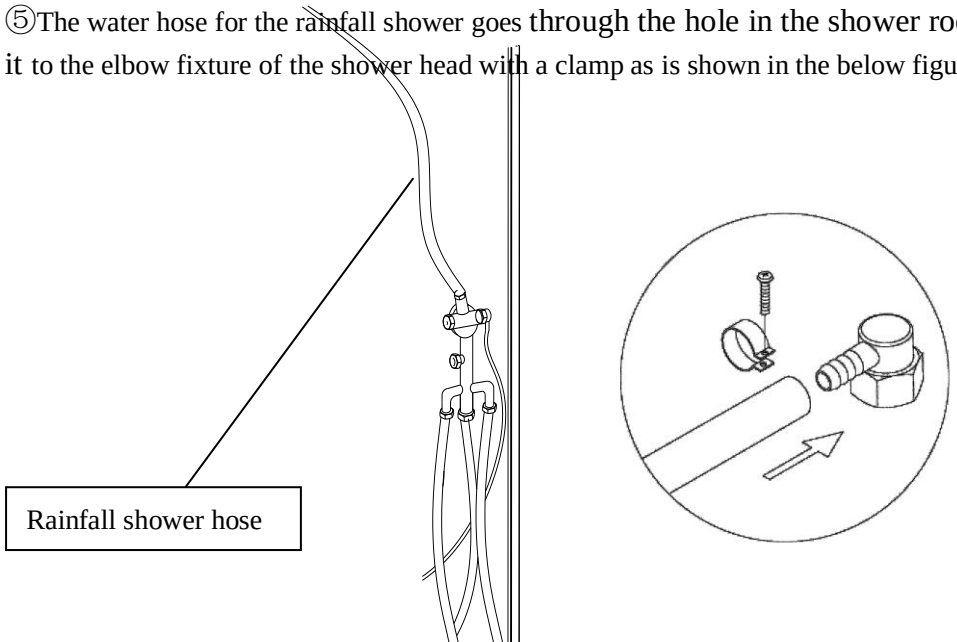


Figure 17

16.） Please refer to the labels (with icons) on the wires of the various low voltage components. They may include Telephone, CD player/ radio, loudspeaker, LED lights, fan, control panel and the ozonizer O3 shower self cleaner. Connect the wires sharing the same labels and/or properly mated connector pairs. The radio antenna will need to be unrolled and placed for best reception. See figure 18

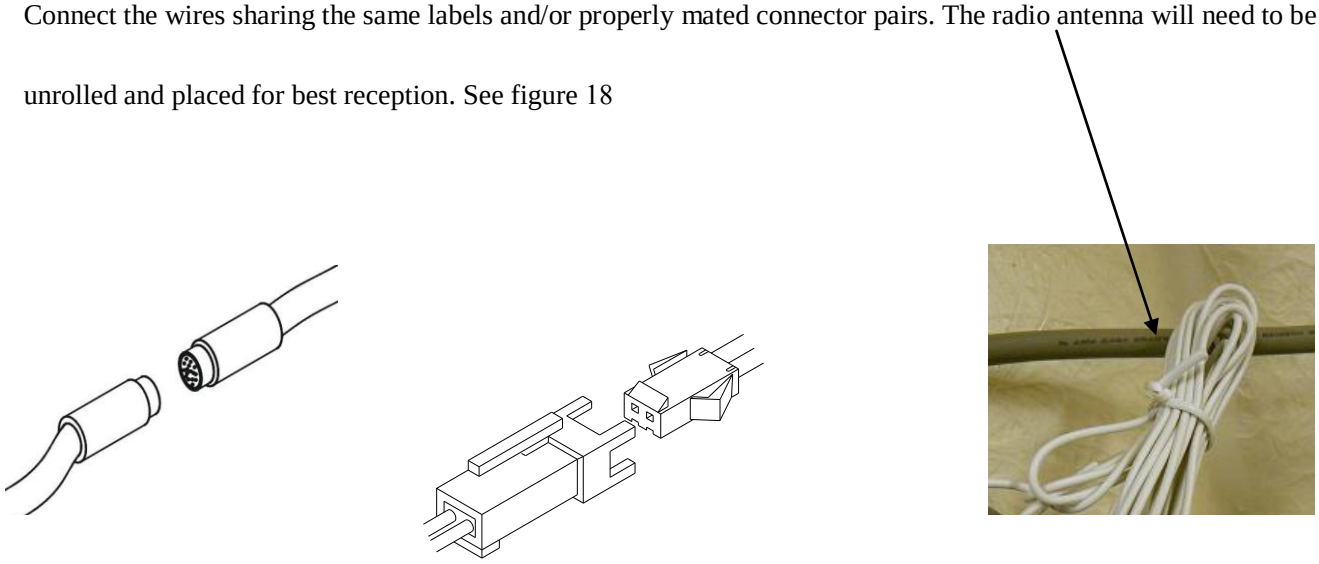
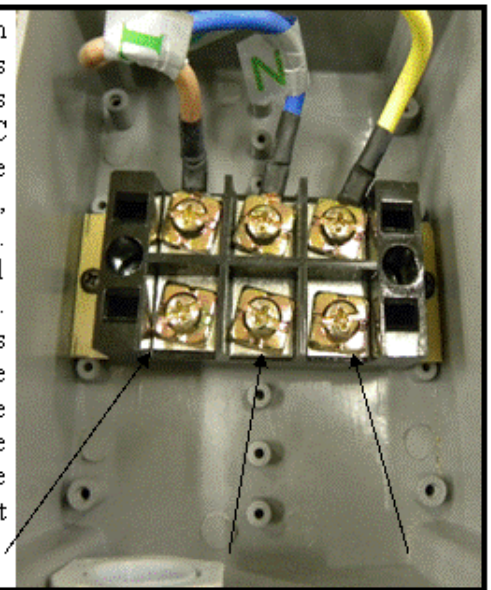


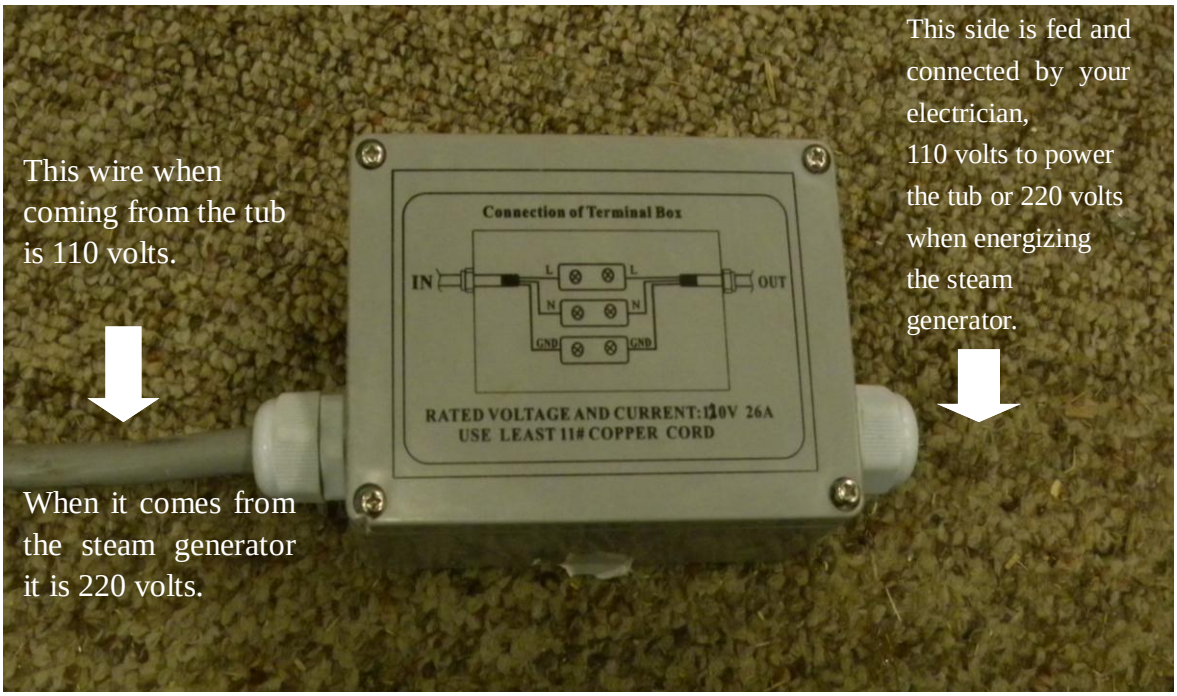
Figure 18

17.) Connect the hot and cold water hoses, the red one is for hot water, while the blue one is for cold. Both the hot and cold water supply lines are half inch NPT pipe thread.

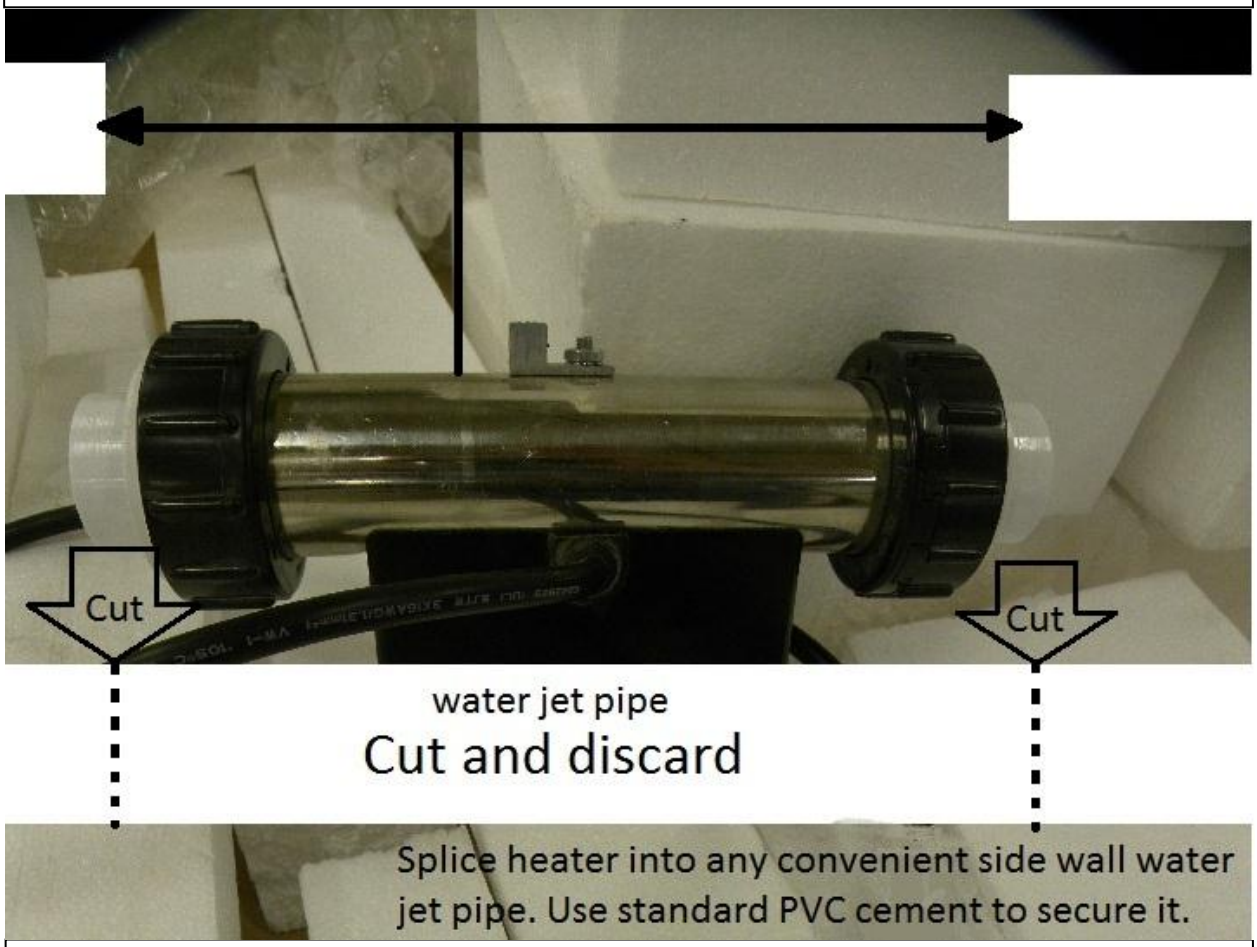
All electrical high voltage input wiring is to a terminal block as follows: 110 volt AC (as pictured to the right) is L1 or hot, neutral and ground. All 220 volt AC is L1 and L2 with ground. No neutral. Note: this is the inside of the box. The outside of the box and where the wires come from are described in the next photo



@ 110 volts	L1 (Hot)	Neutral	Ground
@ 220 volts	L1	L2 (no neutral)	Ground

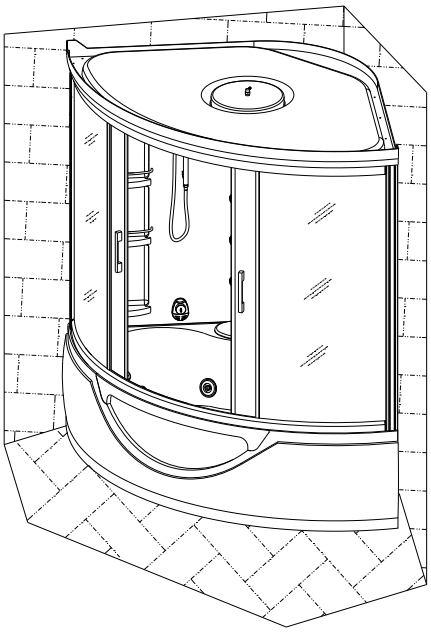

This wire when coming from the tub is 110 volts.
When it comes from the steam generator it is 220 volts.
This side is fed and connected by your electrician, 110 volts to power the tub or 220 volts when energizing the steam generator.
Connection of Terminal Box
IN
OUT
L
N
GND
RATED VOLTAGE AND CURRENT: 120V 26A
USE LEAST 11# COPPER CORD

If you have purchased the optional tub water heater the following image and instructions are for you. If you have not then please skip and disregard this section and you may pick up on the next page.


Cut
Cut
water jet pipe
Cut and discard
Splice heater into any convenient side wall water jet pipe. Use standard PVC cement to secure it.

Pick a side wall water jet pipe that is convenient to work on. Measure the distance taken up by the water heater. (Approximately 7 and 5/8 inches). Cut this part out. Glue the ends of the water heater and wait until the glue sets as per the manufactures instructions. Plug the heater in. It has its own thermostatically controlled on/off and temperature controls. It will turn on when there is water present and the temperature is below 102degrees and will shut off at 104 degrees. Remember that this heater is plugged into a separate GFI 110 volt circuit as discussed in two other sections of this manual.

While the Essex shower spa is still 16-24 inches away from its final installed position all joints and seams should be calked with a high grade silicone sealant. Then fully test the unit before sliding into final installed position.



18.)Spray and foot massage installation

Connect the hose of the hand-held shower head (B) by screwing it into nozzle (A) as depicted below and, then put the hand-held shower head into its cradle. (C)(Figure 19)

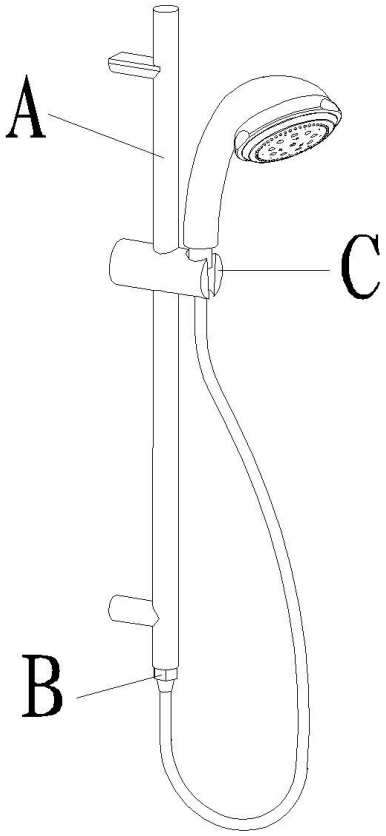
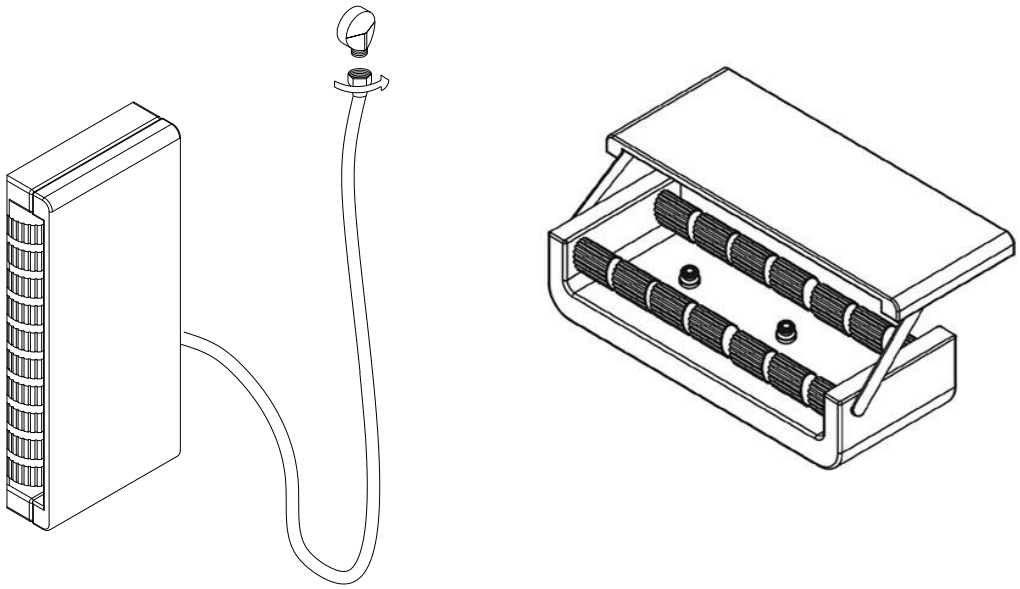


Figure 19

19.) Use the same technique to install the foot massage unit. Its nozzle is located approximately 16 inches below the right side (as you enter) hand held sprayer nozzle. When using the foot massager open the cover of the unit as depicted in the illustration below.

Figure 20



Attention: Within your warranty period please do not break the seal on the electrical box or the steam generator. Doing so will void your warranty. There are no user serviceable parts inside. DO NOT repair or replace these units on your own. If you do experience any problems, please contact Aquapeutics' **Toll Free Customer Service line 1 (800) 290-6812** for after-sale service.

ESSEX OPERATION MANUAL

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Electrical control system E-BF600 function and usage

Function overview

Function \ Model	E-BF600
1. Back accupressure jets	√
2.Steam	√
3. Steam generator cleaner	√
4.Overhead light	√
5. Exhaust Fan	√
6.Radio	√
7· Alarm	√

The control system configuration

1） Handheld infrared remote controller (1)
2） Control panel (1)
3） Control electric box (1)；
4） Steam Generator (1)
5） Top light (1)

Control system features

1. Rated voltage: AC 240V
2. Maximum radio volume: 20 decibals
3. Rated frequency: 60Hz
4. Temperature range: 20-55 C
5. Steam time: 5-50 minutes
6. Temperature measuring error：2℃
7. Power amplification output: 10WX1
8. Operating ambient temperature：+5℃~+40℃
9. Standby power: <10W

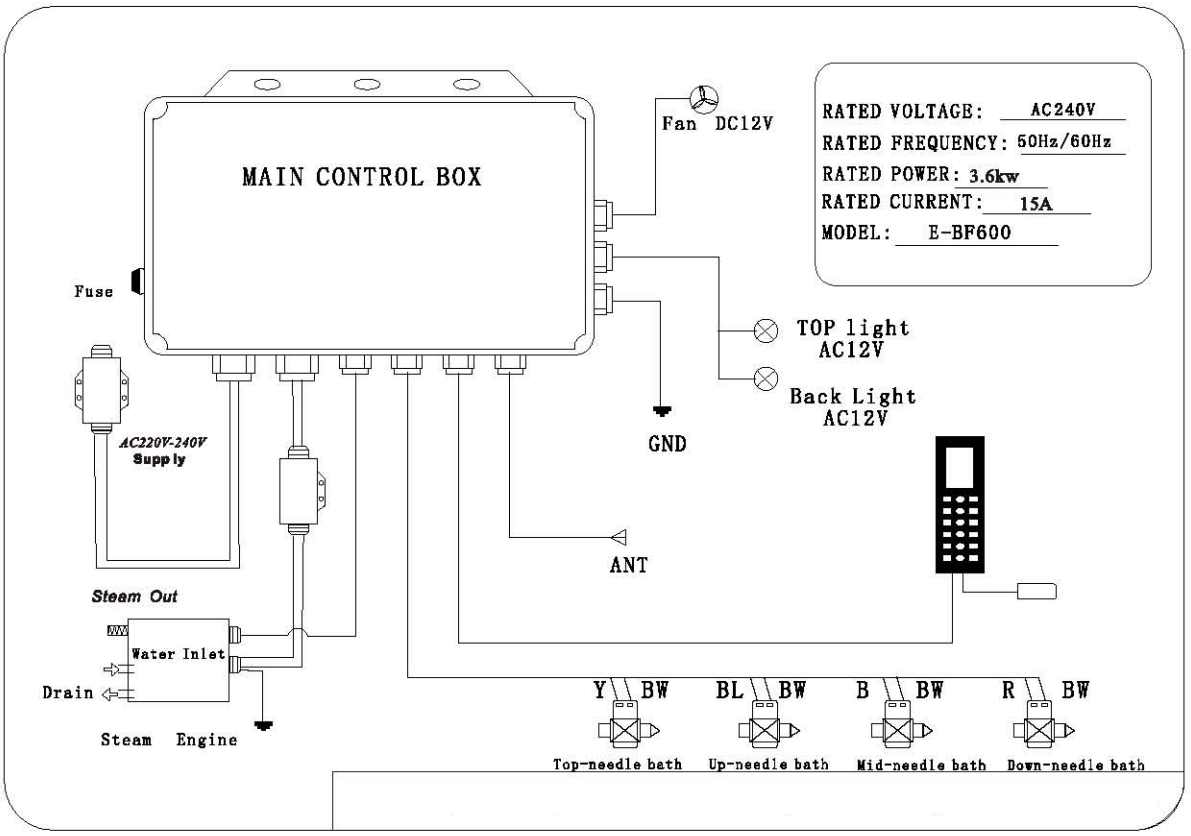
Remote controller features

1）Operating voltage：3.0VDC
2） Power supply: #7 batteries (2 pieces)
3）Expected service life of battery: over one year
4）Transmit range: at least three meters between the receiver and the infrared sensor
5）Transmit angle: usually about 60°
6）Transmit medium: infrared

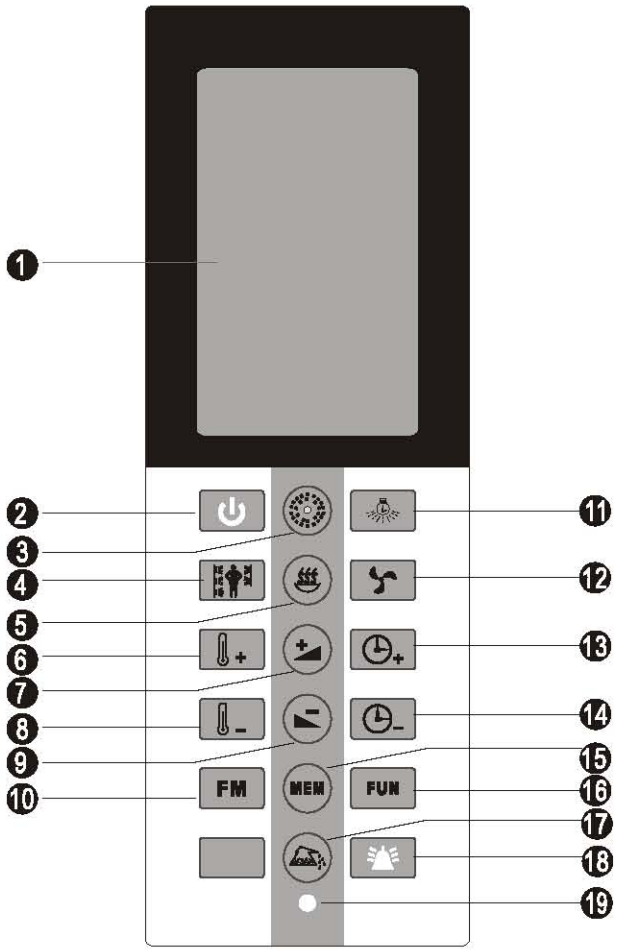
Controlled devices

1. Steam Generator ：AC240V/60Hz 3.6KW
2. Electromagnetic valve：DC12V 6W
3. Exhaust fan: DC12V 3W
4.Top light：AC12V 3W

BF600 ELECTRICAL SCHEMATICS

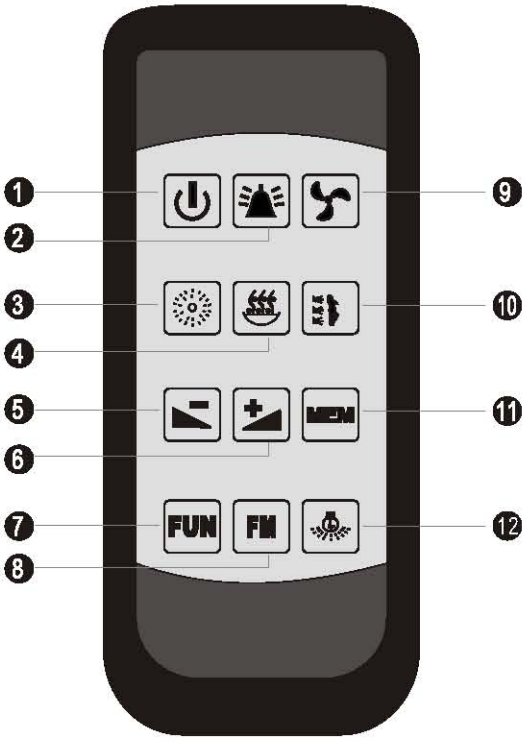


BF600 CONTROL PANEL



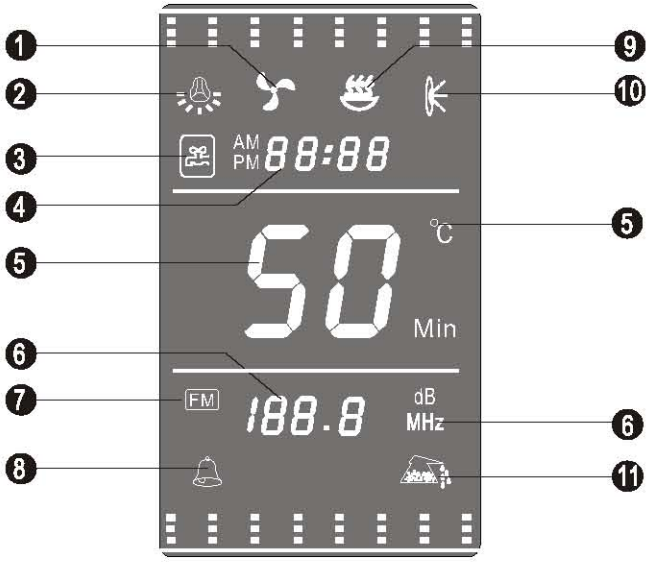
1. LCD Panel
2. Power
3. N/A
4. Accupuncture Jets
5. Steam
6. Temperature +
7. Volume +
8. Temperature -
9. Volume -
10. Radio
11. Overhead light
12. Exhaust fan
13. Time +
14. Time -
15. Radio station memory
16. Function button
17. Steam generator cleaning function
18. Alarm
19. Power light

REMOTE CONTROL



1. Power
2. Alarm
3. N/A
4. Steam
5. Volume -
6. Volume +
7. Function button
8. Radio
9. Exhaust fan
10. Accupuncture Jets
11. Radio station memory
12. Overhead light

Computer LCD description



1. Exhaust fan
2. Light
3. Water intake
4. Time
5. Temperature display
6. Radio station
7. Radio frequency
8. Alarm
9. Steam
10. Spray
11. Steam generator cleaner

E-BF600 control panel function description

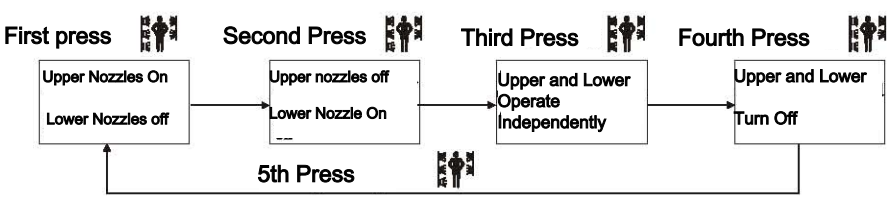
1 ON/OFF

To turn the power on press the icon from the control panel or remote control. To !This will turn on the overhead light as well as display the room temperature, time, and overhead light icon on the display.

Press icon again to shut down.

2 Accupuncture J Jet Operation

The Aspen accupuncture jets offer a series of options. The lower iets and upper iets can be operated independently or simultaneously depending on yothe number of times you press the accupuncture jet icon.



3. Steam Operation

Turn controller on and press key on control panel or remote control. Once button is depressed you will see the steam icon appear on the control panel. Water will begin to fill in the steam generator and the room temperature will be displayed on your control panel. The steam setup time automatically defaults to 45 minutes and the temperature automatically defaults to 45 degrees celsius. If there is no water running to the steam generator then the LCD screen will indicate a lack of water. If this happens press the steam icon again to shut off. Af One minute after the steam has been shut off the solsteam generator will automatically drain any excess water from the steam basin.

4. Steam duration and temperature setup

While the control panel is on, press the $\oplus_+$ or $\oplus_-$ key on the panel to increase or decrease the steam time keeping in mind that the default time is 45 minutes.

To adjust the temperature click on the $\mathbb{I}_+$ or $\mathbb{I}_-$ key to increase or decrease by one degree celsius. Press and hold the $\mathbb{I}_+$ or $\mathbb{I}_-$ for 1.5 seconds to adjust the time automatically and continuously. The temperature ranges from 5-50 degrees celsius.

5. Exhaust Fan

When the panel is on, press the key on the panel or remote control to start up the exhaust fan. Press again to turn off.

6. Clock instructions

To adjust the time press the "FUN" key for 1.5 seconds and the time icon will flash on the display.

When the time icon begins to flash press the hour icon to change the hour and press the key to adjust the minutes.

7. Alarm

When there is an emergency, press the key on the panel or remote control. and the speakers will give off an alarm sound. The alarm will also sound when there is something wrong with the system. When this happens there will be an EE message on the LCD screen. To turn off the alarm you must turn on the overhead light and exhaust fan at the same time and make sure all other functions are turned off. Only then can you disengage the alarm by pressing the on/off icon.

9. Overhead light

When you turn the steam shower on the overhead light will turn on automatically. To turn off simply touch the overhead light icon on the display or remote.